

Title (en)

Method and measuring system for determining deformations a geometric body by means of force or deformation measuring sensors

Title (de)

Verfahren und Messsystem zur Ermittlung von Verformungen eines geometrischen Körpers mittels Kraft- oder Verformungsmesssensoren

Title (fr)

Procédé et système de mesure destinés à déterminer des déformations d'un corps géométrique au moyen de capteurs de mesure de déformation ou de dynamomètre

Publication

**EP 2829859 A3 20150429 (DE)**

Application

**EP 14173259 A 20140620**

Priority

DE 102013107953 A 20130725

Abstract (en)

[origin: US2015027238A1] A method for ascertaining deformations of a geometric body or for measuring forces or torques acting thereon using force measuring sensors or deformation measuring sensors. A plurality of such sensors are arranged on the geometric body in at least two groups. A first group of sensors registers forces acting on the geometric body or deformations of the geometric body in a first spatial direction with reference to a coordinate system fixed relative to the geometric body. A second group of sensors registers forces acting on the geometric body or deformations thereof in a second spatial direction with reference to the coordinate system fixed relative to the geometric body, which is independent of the first spatial direction. Signal outputs of the sensors are compared to one another for the purpose of registering and evaluating signals and for determining or assessing force components or deformation components acting in different spatial directions.

IPC 8 full level

**G01L 5/16** (2006.01); **G01L 3/10** (2006.01); **G01L 5/00** (2006.01)

CPC (source: EP US)

**B23Q 17/005** (2013.01 - EP US); **B23Q 17/0966** (2013.01 - EP US); **G01L 1/005** (2013.01 - US); **G01L 3/108** (2013.01 - EP US); **G01L 5/0004** (2013.01 - EP US); **G01L 5/0076** (2013.01 - EP US); **G01L 5/16** (2013.01 - EP US)

Citation (search report)

- [X] US 2006107761 A1 20060525 - MEYER RICHARD A [US], et al
- [X] US 7694586 B2 20100413 - REY PATRICE [FR]
- [X] EP 0143434 A2 19850605 - BAYERISCHE MOTOREN WERKE AG [DE]

Cited by

EP3520958A1; DE102018201427A1; CN106930195A; EP3360642A1; US10967473B2; WO2018145856A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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**EP 2829859 A2 20150128**; **EP 2829859 A3 20150429**; **EP 2829859 B1 20180221**; **EP 2829859 B8 20180627**; DE 102013107953 A1 20150129; ES 2669609 T3 20180528; HU E037340 T2 20180828; PL 2829859 T3 20180831; TR 201806597 T4 20180621; US 2015027238 A1 20150129; US 9518876 B2 20161213

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